Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-08-28-05** **Date: 31-08-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to main road and drain at Shettyhalli Ward No.12, Shettyhalli Sub division
Agency	:	M/S Technical Manager (West), KRIDL, Bangalore.
Customer's Reference	:	EE/DD/WO/151/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-08-18
Sample ID No	:	2018-08-28-05 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-08-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.11	–
2	Finess by Air permeablity method (m^2/kg,Min)	299.4	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Technical Manager

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

M : 9972924526 | Tel: +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-08-28-05** **Date: 30-08-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to main road and drain at Shettyhalli Ward No.12, Shettyhalli Sub division
Agency	:	M/S Technical Manager (West), KRIDL, Bangalore.
Customer Reference	:	EE/DD/WO/151/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-08-18
Sample ID No	:	2018-08-28-05 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-08-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	198	198	4.0	96.0	90-100
3	10 mm	2958	3156	63.1	36.9	25-55
4	4.75 mm	1521	4677	93.5	6.5	0-10
5	Pan	323	5000	100	0	_

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-08-28-05** **Date: 30-08-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to main road and drain at Shettyhalli Ward No.12, Shettyhalli Sub division
Agency	:	M/S Technical Manager (West), KRIDL, Bangalore.
Customer's Reference	:	EE/DD/WO/151/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-08-18
Sample ID No	:	2018-08-28-05 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-08-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	528	642	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	544	665	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	563	672	19.5%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-09-06-04 **Date: 08/09/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to main road and drain at Shettyhalli Ward No.12, Shettyhalli Sub division

Agency : M/S Technical Manager (West), KRIDL, Bangalore.

Customer's Reference : EE/DD/WO/151/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-18

Sample ID No : 2018-09-06-04 /07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/09/2018	08/09/2018	149.92 X 150.39 X 151.51	22547	8.202	403.6	17.9	17.7
2	M20 Concrete	M20	01/09/2018	08/09/2018	151.12 X 150.99 X 151.90	22817	8.590	390.2	17.1	
3	M20 Concrete	M20	01/09/2018	08/09/2018	150.79 X 151.35 X 149.88	22821	8.397	410.8	18.0	

Note:

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-06-04** **Date: 10/09/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to main road and drain at Shettyhalli Ward No.12, Shettyhalli Sub division

Agency : M/S Technical Manager (West), KRIDL, Bangalore.

Customer's Reference : EE/DD/WO/151/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-18

Sample ID No : 2018-09-06-04 /11

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	03/09/2018	10/09/2018	150.29 X 150.19 X 150.11	22572	8.290	386.0	17.1	17.5
2	M20 Concrete	M20	03/09/2018	10/09/2018	150.34 X 150.60 X 150.79	22641	8.212	403.0	17.8	
3	M20 Concrete	M20	03/09/2018	10/09/2018	150.25 X 150.95 X 150.70	22680	8.272	399.2	17.6	

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